



PATENT  
Docket No. 110.0123 0101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Martin Blumenfeld, et al. ) Group Art Unit: 2877  
Serial No.: 09/434,027 ) Examiner: Unknown  
Confirmation No.: 3391 )  
Filed: November 4, 1999 )  
For: DIRECT MAPPING OF DNA CHIPS TO DETECTOR ARRAYS

ELECTION UNDER 37 C.F.R. §3.71, REVOCATION,  
POWER OF ATTORNEY, AND CERTIFICATE UNDER §3.73(b)

Assistant Commissioner for Patents  
Washington, D.C. 20231

The Assignee, Regents of the University of Minnesota, of the entire interest in the above-identified application hereby elects, under 37 C.F.R. §3.71, to prosecute the application to the exclusion of the inventors.

The Assignee hereby revokes any previous Powers of Attorney and appoints:

Adams, Matthew W.	Reg. No. 43,459
Albin, Loren D.	Reg. No. 37,763
Franklin, Kathleen L.	Reg. No. 47,574
Gebhardt, Mark J.	Reg. No. 35,518
Muetting, Ann M.	Reg. No. 33,977
Provence, David L.	Reg. No. 43,022
Raasch, Kevin W.	Reg. No. 35,651
Sandberg, Victoria A.	Reg. No. 41,287
Walsh, Brian J.	Reg. No. 45,543

as its attorney or agent (with full powers of appointment, substitution and revocation) to prosecute the application, and any division, continuation, continuation-in-part, reexamination or reissue thereof, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office in connection therewith, and to receive any Letters Patent.

Election Under 37 C.F.R. §§3.71, Revocation, Power of Attorney and Certificate under §3.73(b)  
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Title: DIRECT MAPPING OF DNA CHIPS TO DETECTOR ARRAYS

Please send correspondence to the following address:

Attention: Mark J. Gebhardt  
Mueting, Raasch & Gebhardt, P.A.  
P.O. Box 581415  
Minneapolis, MN 55458-1415  
Customer Number 26,813

Regents of the University of Minnesota, a corporation organized and existing under and by virtue of the laws of the State of Minnesota, and having an office and place of business at 450 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, Minnesota 55455-2070, certifies that it is the assignee of the entire right, title, and interest in the patent application identified above by virtue of an assignment from the inventors, a copy of which is attached. I have reviewed all the documents in the chain of title of the patent application identified above and, to the best of my knowledge and belief, title is in the assignee identified above.

I am empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

REGENTS OF THE UNIVERSITY OF MINNESOTA

8-15-01

Date



Signature

Anthony L. Strauss  
Typed or Printed Name

Acting Assistant VP  
Title

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## ASSIGNMENT

Whereas We, Martin Blumenfeld, Joseph J. Talghader, and Mark A. Sanders, with residences and citizenships as indicated below; have made an invention in

## DIRECT MAPPING OF DNA CHIPS TO DETECTOR ARRAYS

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Serial No.: 09/434,027

and executed an application for Letters Patent of the United States of America based thereon;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto Regents of the University of Minnesota ("Company"), a non-profit organization organized and existing under the laws of the State of Minnesota, having its principal office at 600 Gateway, 200 Oak Street SE, Minneapolis, MN 55455, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any continued prosecution application, divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to Regents of the University of Minnesota as the assignee of the entire right, title, and interest therein.

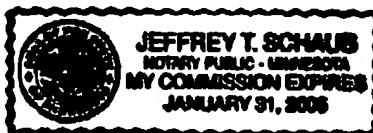
In witness whereof, we have hereunto signed our names on the days and years set forth below.

J-1 MB  
 Name: Martin Blumenfeld  
 Address: 3901 3501 Washburn Avenue South, Minneapolis, MN 55410  
 Citizenship: USA

STATE OF Minnesota )  
 COUNTY OF Ramsey ) ss.  
 )

On this 25 day of Jan 2000 before me personally appeared Martin Blumenfeld to me known to be the person described in and who executed the foregoing instrument, and he executed the same for the uses and purposes therein set forth.

Notary Public



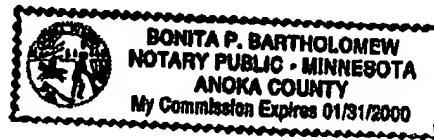
**Assignment****Serial No. 09/434,027****Filed: November 4, 1999****For: DIRECT MAPPING OF DNA CHIPS TO DETECTOR ARRAYS****Page 2 of 2**

Name: Joseph J. Talghader  
 Address: 10497 Audubon Court, Eden Prairie, MN 55347  
 Citizenship: USA

STATE OF MINNESOTA )  
 COUNTY OF ANOKA ) ss.  
 TH

On this 27 day of JANUARY 2000 before me personally appeared Joseph J. Talghader to me known to be the person described in and who executed the foregoing instrument, and he executed the same for the uses and purposes therein set forth.

Bonita P. Bartholomew  
 Notary Public



Name: Mark A. Sanders  
 Address: 1031 27th Avenue SE, Minneapolis, MN 55414  
 Citizenship: USA

STATE OF MINNESOTA )  
 COUNTY OF Ramsey ) ss.

On this 25 day of January 2000 before me personally appeared Mark A. Sanders to me known to be the person described in and who executed the foregoing instrument, and he executed the same for the uses and purposes therein set forth.

Jeffrey T. Schaud  
 Notary Public

